

File
#02067
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NPIC/D-32/67

MEMORANDUM FOR: Deputy Director for Intelligence

SUBJECT : Request for Approval of the Fiber Optics
Viewer Modification with [redacted]
[redacted] from FY 1967 Funding

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REFERENCE : Chief, Administrative Staff, O/DDI Memorandum
of 4 February 1964 on: "Approval of R&D Activities"

1. The Fiber Optics Viewer Modification Project has been prepared for approval in order to carry out contract negotiations in FY 1967.

2. Large volumes of stereo reconnaissance photography are being received in the Center, and require precision stereo measurements to thoroughly exploit them. A valuable but complex instrument which would satisfy our requirements is under development, but cannot be completed for at least three years.

3. NPIC will require additional mensuration instruments in anticipation of the increased requirements for mensuration of imagery as a result of JIING, and will in addition, require the replacement for two [redacted] Comparators now at NPIC on loan from the Army. Instrument shortage would probably commence in FY 1968 if action is not immediately taken to obtain stereo measurements capabilities to fulfill the requirements for at least three years.

4. The modification of the Fiber Optics Viewer will provide NPIC with an economical interim capability for quick stereo readout, available by September of this year. By approval of this project, NPIC will make available an expensive and potentially very useful mensuration instrument now in-house but not in use.

5. The attached staff study, tabs, and contract proposal present the complete schedule, plans, and justification for the study.

Declass Review by NGA.

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SUBJECT: Request for Approval of the Fiber Optics
Viewer Modification with [REDACTED]
[REDACTED] from FY 1967 Funding

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6. It is recommended that this project be approved at a
funding level of [REDACTED] in FY 1967.

ARTHUR C. LUEDAHL
Director
National Photographic Interpretation Center

Attachments: 3/s

APPROVED: _____
R. J. SMITH
Deputy Director for Intelligence

DATE _____

Distribution:
Original - MPIC/SS/LB (after approval)
1 - DDI
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Copy 1

18 January 1967

REGISTERED

Reference: (a) Letter 9 September 1966 - "Film Drive Modifications to 552 Equipments"
(b) Letter 9 September 1966 - "Encoder Installations to 552 Equipments"
(c) Letter 28 November 1966 - "Interferometer Mensuration to 552 Equipments"
(d) Letter 2 December 1966 - "Measurement Improvement on 552 S/N 101 Equipment"

Subject: Quotation for Modification of 552 Type Equipments to Include Film Drive and Encoder Installations

Gentlemen:

In accordance with your telephone request of January 11, 1967, [redacted] is pleased to submit herewith our quotations for the following:

1. Installation of encoders and counters, including cabinetry, on the 552A S/N 101
2. Installation of power assist film drives on 552A S/N 101
3. Installation of film drive systems on equipment 552 S/N 101

In addition to the above, we are also including quotation for adding the cam corrected encoder configuration to the 552A S/N 101 quotation for encoder installation.

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As described to us on the phone, the installations of the encoders and film drives must be accomplished sequentially rather than concurrently. We shall therefore accomplish the activities on the 552 S/N 101 equipment first, i.e., installation of power assist film drive. Once this equipment is completed and operational and accepted, effort will then be taken to install the power assist and encoders on the 552A S/N 101 system. To save costs we will fabricate at the same time both power assist systems within our factory. The actual installation will only be made sequentially.

*Writing
Order*

As has been discussed previously and mentioned in reference (d), we would suggest that at the same time the encoders are added to the 552A equipment, the cam correction approach also be added. As you are well aware, the inherent accuracy of the 552A equipment is limited by the basic structural approach used. We feel considerable accuracy can be added to the equipment by the use of the cam approach with every expectation that the overall system accuracy can be kept within eight microns by use of the cams. By adding only encoders, we are not in a position at this time to state the accuracy expected. Under all circumstances without the cam approach the accuracy would certainly be no better than that already achieved on the 552 equipments.

At the same time that the above modifications are made to the equipments referenced above, we would suggest that you consider the inclusion of interferometric mensuration on the 552 or the 552A equipments. Reference (c) goes into sufficient detail with respect to these modifications. If you wish, we would be pleased to visit your facility and discuss this matter in detail.

The following are the modifications we are proposing to make at your facility:

552-#101 System

1. Add Power Assist Film Drive. Aside from modifying circuit on system, writing top will have to be removed and modified at the factory. Electrical work on system will be completed concurrent with work at factory.

552A-#101 System

1. Add Power Assist Film Drive when work on 552-#101 is completed. Writing top will also have to be removed for factory modification with concurrent electrical work.

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2. Add (4) DRC model 27-625Z encoders, their mechanical mounts and associated cables on system carriage assembly.

3. Provide modified Emcor caster mounted cabinet containing

(4) [] Model 2826C Reversible Counters

(1) [] Model 2030B Card Punch Coupler

(1) [] Model 2825B Control Panel

(1) [] Switch Assembly 701486

(1) [] Arm-Mounted Sloped Front Cabinet for
[] Control Panel Above

(1) Set of Associated Cables to Interconnect the Above
Items

This cabinet will be identical to that supplied for the 552-#101 system, with the only change substituting [] 2030B Card Punch Coupler for [] 2827B Synchronizer previously supplied so that measurement system is compatible with the IBM 526 Card Punch.

It is suggested that you take under consideration the substitution of a new [] encoder for that proposed and used on the 552 equipments. The encoder used on the 552 is Model No. 27-625Z. A new [] model is now available which improves performance and reliability of the encoder. The new model number is 29-625Z. The new model is slightly less expensive but obviously will include some drawing changes and some changes in the installation. Therefore the overall cost to the Government will be identical. If you are interested in such a change in encoder models, please indicate same at the time of purchase.

Cost analysis sheets applicable to the film drive modifications on both equipments are included. The cost analysis sheet for the encoder and readout installation and for the cam adjusted encoder mounting are also enclosed for your consideration. These quotations are made on the basis of a fixed price contract independent of any existing contracts with your agency and should include progress payments in the amount of 75%. We would request that any resulting contract also stipulate that final payment for the

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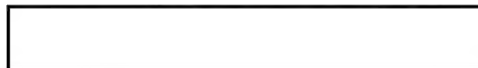
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tasks defined above be made within thirty (30) days upon installation and acceptance. The proposal submitted herewith is valid for sixty (60) days from the date of this letter. The effort described herein will be completed within five (5) months after authority to proceed.

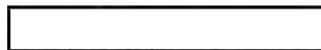
If you desire any additional information or wish to discuss the approach suggested above, please do not hesitate to contact  for technical matters and the undersigned for any other information.

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Very truly yours,



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Executive Vice President

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LHS/aw

Enc. (2). Cost Analyses

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